

No 65

Mercury

An inaugural dissertation on the  
use of Mercury, in the cure of  
certain diseases; -

Submitted,  
to the medical Faculty,  
of the  
University of Pennsylvania,  
for the degree of M.D.

By,  
S. J. Watson.

of North Carolina.

Before, &c.

Passed March 18<sup>th</sup> 1823

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Submitted  
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## Introduction.

In treating on this subject we shall consider it  
under the following heads viz:

1<sup>st</sup> Its introduction into medicine. page 1

2<sup>nd</sup> Its modes of use. 3

3<sup>rd</sup> Its use as a purgative. 9

4<sup>th</sup> As a Diagogue. 14

5<sup>th</sup> The remedy for gonorrhea which occurs in children from  
the use of Mercury. 22

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## A Dissertation on Mercury &c

Amongst the many interesting subjects which present themselves to our notice, there are but few more worthy of our attentive consideration than Mercury, as applied to the cure of certain diseases.

It was first used as a medicine by the Americans. But they restricted its use entirely to the cutaneous affections; & it was not until about the seventeenth century that Mercury was internally employed. Anterior to that date it was only applied to the superficies of the body, in the form of liniment, ointment, or fumigation. In these forms it was employed in cutaneous affections. And its efficacy in these cases, most probably first suggested its use in Lues Venerea. It is said the Resperic itah was one of the first preparations used; but it was soon superseded by a much wilder preparation made by triturating the Argentine Vivium itself with Chaparral & other articles, which formed a pill similar to the modern "blue pill".

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It was not until about the middle of the seven-  
teenth century that Mercury began to excite gen-  
eral attention in the medical world. And its  
introduction into the cure of fevers, particularly, was  
viewed with much distrust, & great caution was used  
by all in its administration. It may be said that  
the discovery of its utility in many diseases is almost entirely  
derived from the physicians of the United States; for at  
the time that it was generally proscribed in Europe as  
a precarious remedy in the cure of disease, it was counten-  
anced by some of the most distinguished physicians in  
America.

Here too it met with violent opposition, And many  
physicians who had to a certain extent tested its vir-  
tues, & felt compelled with the necessity of its use,  
were often obliged to conceal it from their patients.  
The famous prescription of low steen during the life of  
Professor Rush was considered by many as a very large  
dose. — But in this, as in many other instances  
the extreme versatility of man is conspicuous. And



This medicine, which but a few years since was  
 viewed with distrust, & used with extreme caution  
 even by the most distinguished physicians, is now  
 to be found in the hands of all, from the most  
 distinguished <sup>physicians</sup> ~~physicians~~, to the most illiterate and  
 ignorant peasant. It has become a panacea,  
 the first, and the last resort of thousands,  
 who seek with avidity a mineral, the virtues of which  
 they are unacquainted except from general reputation.

## Chapter II.

### On the modus operandi of mercury in a combined state.

It must ever be lamented that this medicine is so  
 generally, & indiscriminably used. Instead of giving  
 it to fulfil some clearly defined indication as so  
 many other remedies; it is by a large majority of  
 physicians given as a specific for symptoms they  
 not know to treat. We repeat that it is to be lamented  
 that it should ever have become so popular a remedy  
 in the

My dear friend,  
I have just received your letter of the 10th inst. and am  
glad to hear that you are well. I am also well and hope  
this letter will find you the same. I have been thinking  
much of late of the friends of the cause and of the  
work that is to be done. I feel that we must be  
united and that we must have a common purpose.  
I am, my friend, your truly,  
Wm. Lloyd Garrison

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in the case of certain diseases, only the limits to its exhibition, the rules which should govern as in its <sup>use</sup> ~~exercise~~ could have been more clearly defined. We have long been persuaded, that a treatise on this subject adapted to the diseases of the United States, would be of great value to our young practitioners particularly: provided it was written by a physician of sufficient eminence to make it respectable. We have been led to this conclusion from having seen it frequently given by men of respectable acquirements very improperly. It is in the hands of many indolent, & ignorant practitioners a band to cut a knot which they have not the ability or industry to untie.

But it must be remembered to the credit of the medical profession that many of its most distinguished scholars have at various times devoted themselves assiduously to this subject. But we fear that very few, if any have been able to assign to it its proper place, or to define with sufficient precision the rule for its application to disease on general principles, so as to enable even the best judgments to provide without





without frequently abusing it. - And, although, experience has enabled many to coincide with some certainly as to its ultimate effects; Yet many of its most important bearings is still unknown, & its *Modus Operandi* in many of the diseases to which it is applied is as yet only guessed at. -

It would be a useless ~~consumption~~ consumption of time to do but to the many theories, which have from time been industriously promulgated as to the *Modus Operandi* of Mercury. It will be sufficient for our purpose merely to glance at some of the most respectable authorities on the subject. And these naturally divide themselves into two classes Viz:

- 1<sup>st</sup> Those who suppose it enters the circulation, & by some process unknown, or unexplained, thence eliminates the morbid matter. -
- 2<sup>nd</sup> Those who contend that it removes the disease by counter-action, & from the strong impression it makes overcomes the original disease -

Both these theories have been supported by able, &



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distinguished men; but the weight of authority  
is in favor of the latter opinion. It had been  
stated by several distinguished men, that mercury  
could be detected in the blood, & cures of persons  
suspects to a profuse salivation. To settle this question  
many experiments were made with very different results  
from those made by Barbacane, Hamilton, & others.

Amongst other Doctor Physick of this city institutes a  
number of experiments with this view. In patients  
laboring under profuse salivation he could not detect  
a single particle of mercury either in the blood or saliva  
of such persons, or if it exists not entirely eluded  
his researches.

Mr John Hunter whose fame is imperishable, & whose  
physiological researches, for mankind, & his opinions have  
not been exceeded; remarks, that "the efficacy of  
Mercury in Syphilis depends on its general, permanent,  
& continual operation on the system, by which it induces  
& keeps up an action incompatible with that morbid  
action which constitutes the disease until the virus is  
destroyed &c.  
That Mercury in a combined state does act as a powerful  
stimulant



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stimulant to the heart & arteries is at present conceded on all hands. And this opinion is strengthened by the fact that if blood be drawn from the arm of the most debilitated & debilitated individual, it exhibits a buffy coat somewhat similar to that drawn from persons laboring under an inflammatory affection, attended by more or less febrile action. This febrile state is generally preceded by emaciation.

That it acts as a stimulant we infer also from the following considerations, 1<sup>st</sup> It increases the action of the stomach & intestines. 2<sup>d</sup> It acts also very powerfully on the glandular system, increasing ~~their~~ secretions & promoting the discharge from the skin.

This stimulant effect on the human system must not be confounded with that which arises from the exhibition of Alcohol, Ether &c. it is of a nature "*ex genere*" for concluding the remarks on the *modus operandi* of Mercury, an objection to its curative effect in Syphilis & some other diseases simply by exciting a counter disease very naturally suggests itself. — If it had nothing specified in its action but was useful only by exciting a mercurial disease, why might not we remove Syphilis (for in this instance only there seems to be a positive  
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exception to the general rule) by giving for instance the Acetate of Potash? With this, we may keep up constantly a morbid action on the stomach (through it & again the other organs of the body) which will destroy eventually the morbid action induced by the original disease. But it is generally believed that in obstinate cases of dyspepsia no other remedy will answer.

We must <sup>own</sup> utter inability to ascertain with any degree of certainty its mode of operation; justice forbidding time unecessarily in attempt, which must be futile; We shall pass to the consideration of ~~the~~ Mercury as a purgative

### Chapter III Use of Mercury as a purgative

With this view it has for several years superseded & almost all other purgatives. And its ability in many cases is indisputable. But in this, as in many other instances, the extreme febleness, & <sup>of men</sup> physicians have induced them to run into extremes. But a few years since it was used with distinct  
& caution

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The object of the present work is to present a series of papers on the subject of the history of the United States, from the first settlement to the present time. The object of the present work is to present a series of papers on the subject of the history of the United States, from the first settlement to the present time.

The first part of the work is devoted to a general history of the United States, from the first settlement to the present time. The second part is devoted to a history of the United States, from the first settlement to the present time.

### CHAPTER III THE UNITED STATES IN THE PRESENT

The third part of the work is devoted to a history of the United States, from the first settlement to the present time. The fourth part is devoted to a history of the United States, from the first settlement to the present time.



to eastern, is an exhibit for many families confined  
for the southern States, particularly it is the remedy  
in febrile, erysipelas, &c. But it is very often  
superior to the particular stage of the disease in  
which it is to be given, or at least in many cases  
it holds its ground, being as powerful in both  
"febrile" as "to the" "in the line of the disease"  
in the case of yellow fever. And although they are  
frequently subjected to some of the influences which  
indicate dangerous disease, which will form it into  
incurable disease, it is a popular opinion to believe  
that no change is effected in the nature of the

But the indiscriminate, & an exhibit of nearly every  
empirical view of the medicine, is not by any  
means adequate. It is still only given in the  
of its very exhibition, it is not to be used  
himself for an exhibition.

It is again, as we have seen, a sort of dangerous  
is dangerous, when afterwards, calls in to the  
of the, believing such a course to be that from then  
for him to provide liberal largely with directions to

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& caution, is now exhibited for every febrile complaint. In the Southern States particularly it is the remedy in fevers. Erysipelas, &c. &c. without any special reference to the particular stage of the disease in which it might be proper, or at least innocent. "Salaf" & "Salomel" have become as prevalent in North Carolina as "tea & tea" were in the time of Doctor Rush in the case of Yellow fever. And although they are frequently subjects to some of the unpleasant, & sometimes dangerous diseases which arise from its indiscriminate use, so strong is popular opinion in its favor that no change is effected in public sentiment. —

But this indiscriminate, & we might properly add empirical use of the medicine is not by any means restricted to adults only, for in consequence of its easy exhibition it becomes almost the only remedy for our children.

Nothing is more common than one of our most distinguished physicians, when a physician is called in to see a child laboring under some violent fever than, for him to prescribe salomel largely with directions to repeat the dose

I have been thinking of you very much lately  
 and wondering how you are getting on  
 I hope you are well and happy  
 I have been very busy lately  
 but I have managed to find some time  
 to write you a few lines  
 I have been thinking of you very much lately  
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the dose every day. In three or four days he returns, & then able to inform the distressed parents that their child labors under Hydrocephalus internus. A disease comparatively mild & treatable in by the improper use of Mercury converted into one of the most formidable nature. — He continues by saying, that the determination of blood to the head in children being <sup>now</sup> considerable, this determination adds to this determination is increased by the calomel. From some cause or other the calomel may not have operated at all, or if it did, not ~~sufficiently~~ <sup>sufficiently</sup> actively, to counteract its stimulant effects; & effusion often is the consequence. —

We object too, to its indiscriminate use in the diseases of children from a knowledge of the fact that most mothers in order to tranquillize their children cannot be prevented by the authority of their Physicians from giving it during the operation of the medicine. And in febrile affections generally the thirst of the little sufferers is so great that it is almost impossible to deny them the gratification of a little water. This frequently repeats often a course of much evil to the patient. We are aware that these facts of   
— themselves



themselves are not sufficient to preclude its use when it becomes absolutely necessary, yet when a disease is easily managed by milder articles, (the greater number are) these should undoubtedly be preferred. We have been more particular in these remarks than we otherwise should have been, had we not seen this medicine so frequently given to children for trifling affections (which required scarcely any thing for their cure) merely on account of its being tasteless, & therefore easily exhibited —

Not a little has been said of the use of calomel in febrile affections, & no article in the *Materna Medica* is more generally employed as a purgative, alone or in combination with jalap, Castor oil &c. It can be often properly given in these affections, yet we would not generally recommend it as a purgative unless we had some specific object in view; unless the fever was associated with some circumstances in which we could call in the specific effects of the medicine as an auxiliary. — No respectable physician in the present enlightened age would prefer calomel as a purgative in acute inflammation

*[Faint, illegible handwriting]*

[illegible]



inflammation of any of the organs of the body, who could procure any of the purging Neutral salts. Dissections show that in most instances where fevers terminate fatally some of the viscera of the body are inflamed. Blood drawn from the arm during synochal fever exhibits the same appearances, as in Erysipelas or common phlegmonous inflammation. Hence in many instances we could not on general principles prefer calomel to other medicines better calculated to depress inordinate arterial action.

In certain conditions of the alimentary canal it may be used with advantage, where for instance there was much torpor pervading the stomach & intestinal tube, with an engorgement of the liver. Perhaps in these cases from the inexplicable affinity ~~anyway~~ appears to have for the glands of the body it might be of considerable service. In cases too of suddenly obstructed bile in the acute stage of fever where the usual depleting remedies had failed to remove such obstruction, it might be used, as well as in those cases that were either aggravated or protracted in consequence of some visceral obstruction. It will be unnecessary to enter into a minute detail of the

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of the particular cases to which it may or may not be appropriate; the limits generally assigned to atheria will not permit. From what has been said they may be inferred. — Dismissing therefore any further reflection on its use as a purgative we shall next consider its use as a Sialagogue. —

#### Chapter IV. Use of Mercury as a Sialagogue

Mercury to an extent to produce a copious salivation mercury becomes more injurious than in any other way.

It is too frequently the case that physicians particularly in its application to fever are entirely purgative. No sooner have they partially cleared the alimentary canal, than they commence with small doses of the medicine with a view to produce a ptyalism, when if there were no other objections to its use it would be impossible to induce it from the high degree of febrile action that exists. It is now generally believed that there is a "salutary point" at which Mercury acts with the greatest promptness & in the smallest quantities. Where shall we fix this point?  
Not



16.  
Not in a state of health, where the functions of the body  
<sup>are</sup> ~~more~~ vigorous: nor in a condition of the body where <sup>one</sup> part  
or the whole of the several systems <sup>are</sup> ~~are~~ in a state of  
irritation. To produce a mild, sufficient ptysism  
we would prefer that state of the system which was rather  
below the healthy standard, ~~where~~ <sup>where</sup> it did not greatly  
transcend that point —

We would not think it proper to introduce olleum into  
the system with a view to excite a ptysism when the  
action was steadily above the healthy standard; because  
it is generally impracticable, ~~where~~ <sup>where</sup> it is excited in <sup>in</sup>  
those circumstances it does not show itself <sup>in</sup> that benign  
manner which it does under opposite state of the system.

We have hints above that we would object to its use as a  
general rule in persons greatly debilitated, which may seem  
to contradict what has been heretofore said "that it acts  
as a stimulant to the heart & arteries". To reconcile this  
seeming contradiction, we remark <sup>as before</sup> that it most probably does  
not act as other stimulants of the Materia Medica,  
if it did the great emaciation & debility that follows  
a salivation may subject the patient to all the diseases  
which await a greatly debilitated state of the body, such  
as dropsies &c. &c. Upon the whole we should scarcely  
think of

[illegible]

threat of prescribing Calomel with this view in fever, unless  
 in protracted cases when was either a clear catarrhism  
 or remission stupor rather soft, & compressible, the tongue  
 moist - the skin soft &c. - In this view of the applica-  
 tion of Mercury to the cure of fevers was supported by  
 professor Chapman, who in speaking of Bilious Fevers  
 observes, "I am clearly of opinion that the disease is highly  
 "bilious requiring for its cure strong mucial pumps.  
 "Whether it be expedient to use the medicine to a point  
 "of Salivation, I am not prepared to pronounce decisively.  
 "As a general rule it obviously cannot be necessary."  
 And again in speaking of Yellow Fever he observes "The Med-  
 "icine (Calomel) was applied not only to open the bowels  
 "copiously but to excite salivation. At first this plan  
 "was deemed singularly efficacious, so much so indeed  
 "that in the enthusiasm of the moment, it was pronounced  
 "that death never took place after Mercury evinced  
 "its effects on the system. But a cooler & more deliberate  
 "observation soon exposed the illusion, & in all cases  
 "ultimately to detract the propriety of the practice."  
 (Therap. Vol 2. 296 &c.)

In the winter of 1820 I was informed by a respectable cor-  
 respondent that two modes of practice prevailed in the Infirmary  
 of







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New York in the treatment of Typhus Fever. During the three months that Doctor Hosack attended the infirmary there were upwards of thirty cases of Typhus Fever, which he treated in a remarkably mild manner. Giving mild purgatives, gentle diaphoretics, with the application of cool water to the superficies of the body.

Out of this number only 3 or 4 patients died. He was succeeded by Doctor Francis who invariably endeavored to produce a salivation, the result from an equal number was very greatly in favor of Doctor Hosack's practice.

And now we may mention that this practice of salivating generally infebile affections has its origin (for it had not its origin) its use has been much encouraged in the belief that after a pyrexia takes place infers the patient generally recovers. — And it was to this circumstance alone perhaps that Calomel gained much of its celebrity in the cure of fevers, particularly the Yellow Fever (Vide Chapman Thesa: vol. 2. p. 296.) — This belief has unfortunately led to very erroneous practice. It is usual with many of the Southern physicians as soon as they have exhibited an emetic & Calomel, & perhaps detracted a small quantity of blood, to commence with small quantities of Calomel with

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The book in the handwriting of Stephen. During  
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applied by the strong mercurial ointment rubbed on the surface of the body, thinking ~~although~~ already observed that if they can "outstrip the disease", produce a fituation before mental symptoms appear, & their patient is secure from danger. - This obviously has two pernicious tendencies. Given too early it rarely affects the mouth at all, aggravates all the symptoms; so that is worse & supersedes better remedies, which within rage to salivate, are neglected or forgotten. -

Whitellius in fever where pyrexia is induced that it is owing to the same cause, which produces a fresh healthy perspiration in a protracted case of fever, that they are the effect of a Crisis & not the cause of it. -

In many cases where physicians give calomel prematurely their patients sink under the disease before salvation can be induced; at other times when from the strength of the constitution aided probably by other remedies, the patient bears off against the effects of the disease, a crisis takes place, a gentle loosening of the bowels is the consequence & not the cause of it. -

When for instance in fever when it was thought during the course of it to give a pill of Calomel of 5 or 8 grains <sup>more</sup> every night for the purpose of producing an evacuation or



the succeeding morning, we have generally expected, shews  
with pleasure as a favorable symptom a gentle <sup>general</sup> looseness of  
the gums; yet we repeat again that we do not look upon  
it as the cause, but as the result of returning health.

In Syphilis Mercury has for many years stood unequalled;  
this disease which was once so formidable to civilizes as  
well as savage nations has at length met with <sup>the remedy</sup> complete  
shock in ~~mercury~~. Whether this disease can be removed by  
any remedy except this is a question which is ~~subject~~ of  
some doubt. In the early stages of the disease before  
the system becomes contaminated, ~~then~~ it certainly cannot  
be removed, as the disease generally yields readily to  
local applications. But when <sup>the</sup> disease becomes general,  
although we will not say that there is no other remedy, yet  
we should think it hazardous to neglect entirely the use  
of mercury. We have some doubts whether in the cure of  
the disease syphilism is always if at all necessary.  
It is probable that the system can be sufficiently under a  
mercurial impression to remove the disease without its involving  
any thing of the kind on the salivary glands. We do not  
know that its showing itself there particularly is any  
thing

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thing more than an evidence that the Mercury has  
 made a strong impression on the system generally, or,  
 that this particular circumstance contributes in any degree  
 to the restoration of the patient. We have in two  
 instances seen pills of the Orogenium of Mercury given  
 in cases of Syphilis that had been protracted for several  
 months with complete relief to the patients without its  
 making any sensible impression on the salivary glands.

In Syphilitic Rheumatism accompanied by venereal nodes  
 we can speak confidently of the virtues of Mercury -  
 we have seen two or three cases of the kind, which resisted  
 every other remedy, nothing but a copious salivation  
 kept up for a considerable length of time ~~and~~ aided  
 by the Lisbon diet drink was confined to the cure.  
 A mild salivation had been tried several times with-  
 out any advantage to the patients -

A cure similar to this appears to be the only remedy  
 in Gonorrheic Rheumatism. When confirmed nothing  
 less than completely resolving the system seems to  
 afford any thing like permanent relief.



I have the honor to acknowledge the receipt of your letter of the 11th inst. in relation to the above named matter. I have the honor to acknowledge the receipt of your letter of the 11th inst. in relation to the above named matter. I have the honor to acknowledge the receipt of your letter of the 11th inst. in relation to the above named matter.

*[Faint handwritten text, likely bleed-through from the reverse side.]*



For acute Hepatitis after the usual depletory remedies  
 it would seem necessary as a purgation only  
 acted in its chronic state when suppuration had not  
 actually taken place, a ptygalium seems to be the only  
 resource: ~~as~~ in all other cases we must be governed by  
 circumstances. When there was tension in the pulse  
 accompanied by febrile symptoms we should always  
 promote depletion. —

For chronic affections of the chest, particularly those which  
 would lead us to suppose there was danger of phthisis  
 Pulmonalis, we should generally prescribe mercury ~~with~~  
 But in confirmed phthisis experience has shown that it  
 is not an appropriate remedy. —

We intentionally omit many diseases to which this remedy  
 might be properly applied. It was our object when we  
 commenced this dissertation merely to give a brief outline  
 of the use of Mercury, & to show as nearly as the nature  
 of the subject would allow under what particular circum-  
 stances the medicine should be administered.

It now

The object of the present publication is to  
 present to the public a collection of  
 the most valuable and interesting  
 documents and manuscripts  
 which have been preserved in the  
 archives of the British Museum.  
 The first part of the work contains  
 a list of the names of the  
 authors of the documents, and  
 a description of the contents of  
 each document.

The second part of the work contains  
 a list of the names of the  
 subjects of the documents, and  
 a description of the contents of  
 each document.

The third part of the work contains  
 a list of the names of the  
 subjects of the documents, and  
 a description of the contents of  
 each document.

It now only remains for us to mention one amongst many other bad effects resulting from the use of this medicine, & the remedy for it. -

### Chapter II. -

Although we have condemned the indiscriminate use of Mercury in the disease of children, yet we would not be understood as condemning it in every instance. The disease of children although generally more simple than those of adults, often require remedies equally energetic. And it sometimes happens that they cannot be removed without the liberal use of Mercury as for instance in infantile syphilis - It is well known how extremely difficult it is to induce a salivation in children, & how very intractable & dangerous a salivation is when excited. It is so much so, that many practitioners omit its use entirely, so gangrene, mortification & even death its effects sometimes the consequences.

It affords me much pleasure to state that Doctor Field of Petersburg Virginia, a gentleman of the highest respectability both as a man, & as a physician has discovered by several experiments that when the  
salivary



Salivary glands, cheeks &c are completely gangrenous, that sometimes afford almost immediate relief. That they sometimes entirely change the features of the case without any loss of substance, so that it is not the case & sloughing takes place, it is infinitely more mild in its character. The rare occurrence of gangrene in adults has prevented his making a trial of the remedy in these cases. Should future experiments prove this to be the fact generally, the discovery will be no inconsiderable acquisition to medical science.

Lot. E. Watson



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Trip of Iron

W. A. Geyer 1823.

